Geometry Formulas to Know

***Keep in mind that not all formulas on this list will show up on the Unit 4 Tests, but you want to be familiar with these formulas as you may need them for future tests or on the AP test.*

Right Triangles
-Pythagorean Theorem: $a^2 + b^2 = c^2$
-Trigonometric Relationships Relating to Right Triangles (Soh Cah Toa)
-Know how to set up proportions using similar triangles

Rectangles
-Area: $A = l \cdot w$
-Perimeter: $P = 2l + 2w$

Circles
-Area: $A = \pi r^2$
-Relationship between radius and diameter: 2r=d
-Circumference: $C = d\pi$

Rectangular Prism/Box
-Volume: $V = l \cdot w \cdot h$
-Surface Area: $SA = 2(lw + lh + hw)$

Cylinder
-Volume: $V = \pi r^2 h$

Sphere
-Volume: $V = \frac{4}{3}\pi r^3$
-Surface Area: $SA = 4\pi r^2$

Cone
-Volume: $V = \frac{\pi}{3} r^2 h$